15

20

5



## **WHAT IS CLAIMED IS:**

- 1. A positive active material for a rechargeable lithium battery comprising:
- lithium nickel manganese oxides; and

lithium manganese oxides,

- wherein a weight ratio of the lithium manganese oxides to the lithium nickel manganese oxides is less than 1.
- 2. The positive active material of claim 1 wherein the lithium nickel manganese oxides is  $\text{Li}_x \text{Ni}_{1-y} \text{Mn}_y \text{O}_{2+z}$  (0 < x < 1.3, and 0.1  $\leq$  y  $\leq$  0.5), 0  $\leq$  z  $\leq$  0.5).
- $3_{r}$  The positive active material of claim 1 wherein the lithium manganese oxides is  $Li_{1+x}Mn_{2-x}O_{4+z}$  (0  $\leq$  x'  $\leq$  0.3, and 0  $\leq$  z  $\leq$  0.5).
- 4. The positive active material of claim 1 wherein the mixing ratio of the lithium nickel manganese oxides and lithium manganese oxides is 90 to 60:10 to 40 wt%.

5. A method of preparing a positive active material for a rechargeable lithium battery, comprising the steps of:

mixing lithium nickel cobalt oxide with lithium manganese oxide, the weight ratio of lithium manganese oxide to lithium nickel cobalt oxide being less

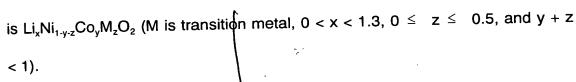
than 1;

adding a binder to the mixture; and heat-treating the resulting mixture at a low-temperature.

6. The method of claim 5 wherein the lithium nickel cobalt oxides

√ r̄̄̄̄

5



- 7. The method of claim 5 wherein the lithium manganese oxides is  $\text{Li}_{1+x} \text{Mn}_{2-x} O_{4+z} \ (0 \le x' \le 0.3, \ 0 \le z' \le 0.5).$
- 8. The method of claim 5 wherein the weight ratio of the lithium nickel cobalt oxides and lithium manganese oxides is 90 to 60 : 10 to 40 wt%.
- 9. The method of claim 5 wherein the heating step is performed at 200 to 500 ℃.
- produced by mixing lithium nickel cobalt oxides with lithium manganese oxides, the weight ratio of lithium manganese oxides to lithium nickel cobalt oxides being less than 1;

adding a binder to the mixture; and

heat-treating the resulting mixture at a low-temperature.

Lini Go